MAY 21 2004 P

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Find

In re application of:

Readhead et al.

Serial No.

10/054,143

Filed:

November 12, 2001

For:

IN VITRO TRANSFECTION, STORAGE AND TRANSFER OF MALE GERM CELLS FOR

GENERATION OF TRANSGENIC SPECIES & GENETIC

THERAPIES

Examiner:

Woitach, J

Unit:

1632

Confirmation No.:

6154

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450 CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS

ALEXANDRIA, VIRGINIA 22313-11450, ON May 18, 2004

DATE

BY

NN WEISS

May 18, 2004

(DATE OF SIGNATURE)

Dear Sir:

Applicant's attorney submits herewith Form PTO-1449, "Information Disclosure Statement" by Applicant. A copy of each of the disclosed patent references and other references listed as other documents Nos. 1-89 is not being submitted herewith, because under Rule 37 C.F.R. § 1.98(d) this art has been cited by the Examiner and/or the Applicant in connection with U.S. Serial Nos. 10/054,365, 10/008,385, and 10/074,945, all filed November 12, 2001, which are divisionals of 09/191,920, filed November 13, 1998 and which issued November 13, 2001 as USPN 6,316,692. These previously filed Applications were cited by applicant in this present Application per 35 U.S.C. §§ 120 and 119(e).

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to

05/24/2004 NVERNE1 00000027 501597 10054

PATENT 18810-81609

patentability or that no other material information exists (37 C.F.R. 1.97(h)). Further the filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

The filing of this Information Disclosure Statement is after a first Office Action, therefore, the Commissioner is hereby authorized charge \$180.00 as a required fee and to credit overpayments or charge any fees required to Deposit Account No. 50-1597 under 37 C.F.R. 1.16 or C.F.R. 1.17.

Respectfully submitted,

Rv.

Nisan A. Steinberg, Ph.D. Registration No. 40,345

SIDLEY AUSTIN BROWN & WOOD LLP 555 West Fifth Street Los Angeles, California 90013-1010

Ofc: 213/896-6665 Fax: 213/896-6600 FORM PTQ-1449 (Modified)

,	8														,	Pa	ge /	of 12
	M PTQ-1449 (Modified)								CET 1	10.		SERIAL NO.						
ري	of Patents and Publications for APPLICANT: Readhead							10/054,	143					. 1				
					İ		APPLICANT: Readhead et al.											
Applica	ants Infor		Disclosi	ıre				DAT				GROUP	ART U	NIT				
	State	ement				No	vem	ber 1	2, 2 00	1		1632						
																	_	
									U.S.	PAT	ENT DOCU	MENTS						
	EXAMI				DO	ocui	MENT	NUM	BER		DATE	NAME		CLAS	ss	SUE		FILING DATE
	670	2	-	4	6	6	3	2	8	1	05/05/87	Gillies et al.		-	,		+	
				4	7	6	2	7	0	1	08/09/88	Horan et al.						
				4	8	7	0	0	0	9	09/26/89	Evans et al.				- 1		
				4	9	5	9	3	1	3	09/25/90	Taketo						
				4	9	7	8	3	3	2	12/18/90	Luck et al.						
				5	1	7	5	3	8	4	12/29/92	Krimpenfort e	et al.					
				5	2	0	6	1	4	3	04/27/93	Horan et al.						
				5	3	5	8	7	1	1	10/25/94	May et al.						
		. 1		5	3	7	5	6	0	6	12/27/94	Slezak et al.						
				5	4	2	2	2	6	6	06/06/95	Cormier et al						
				5	4	3	0	0	5	7	07/04/95	Anderson et						
				5	4	3	4	3	4	0	07/18/95	Krimpenfort	et al.					
				5	4	9	1	0	8	4	02/13/96	Chalfie et al.						
				5	5	2	1	2	9	1	05/28/96	Curiel et al.				/		
								F	DREIG	SN P	ATENT DOC	UMENTS	_			_		
	Toneday								١,		JB	Tran	Franslation					
					C	oct	MEN	IT NU	MBER		DATE	COUNTRY CLASS				YES	7	
				_	_							EPO					123	1
	W0 90/08192				07/26/90	270												

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1. Avarbock, Mary R., et al., Reconstitution of spermatogenesis from frozen spermatogonial stem cells, Nature Medicine, Vol. 2, No. 6, pp. 693-696, (June, 1996).

2. Baranov, V. S., et al., The possibility of the incorporation of macromolecules, including exogenous DNA, into the germ cells of male mice. The liposome method and Ca-P coprecipitation method, Tsitol Genet, Vol.24,No.2,pp. 52-55 (Mar. 1990). ABSTRACT ONLY

EXAMINER DATE CONSIDERED 1/19/04

FORM PTO 1449 (Modified)

List of Patents and Publications for ` Applicants Information Disclosure Statement

		Page \bot of 1:
ATTY DOCKET NO.	SERIAL NO.	
18810-81609	10/054,143	
APPLICANT: Readhead et al.		
FILING DATE:	GROUP ART UNIT	
November 12, 2001	1632	

							L	J.S.	PATEN	IT DO	ĊU	MENTS							
EXAMINÉR INITIAL			Ö	CUN	ENT	NUM	IBER		OA	TE.		NAME		CL	ASS	SU	IB ISS	FILING	 }
670		5	5	3	2	1	4	3	07/0	2/96	G	rosveld et al.					T		
		5	5	4	7	9	3	2	08/2	0/96	С	uriel et al.	100						
	,	5	5	4	3	2	9	1	08/0	6/96	K	eyomarsi et a	l.				T		
		5	5	5	6	9	5	4	09/1	7/96	8	um et al.							
		5	5	5	9	1	4	8	09/2	4/96	A	nderson et al.	<u></u>						
		5	5	9	1	6	2	5	01/0	7/97	G	erson et al.							
·		5	5	9	1	6	6	9	01/0	7/97	Κı	rimpenfort et a	al.						
		5	6	1	0	0	5	3	03/1	1/97	CI	hung et al.							
		5	6	2	5	0	4	8	04/2	9/97	Ts	sien et al.							
		5	6	3	9	6	1	8	06/1	7/97	G	ay							
		5	6	4	3	7	4	1	07/0	1/97	Ts	sukamoto et a	ıl.					-	
		5	6	5	0	1	3	5	07/2:	2/97	C	ontag et al.							
		5	6	6	5	5	5	7	09/0	9/97	М	urray et al.							
	1	5	6	7	0	3	7	2	09/2	3/97	н	ogan							
		5	7	5	0	3	7	6	05/1:	2/98	w	eiss et al.							
		5	7	6	7	2	5	8	06/1	6/98	Si	dransky							
		5	7	7	7	0	7	9	07/0	7/98	Ts	sien et al.	·		\perp				
		5	8	2	1	2	3	4	10/1:	3/98	D	zau							
		5	8	4	0	4	7	8	11/2	4/98	Pa	atterson et al.			`		J		_
			_				F	OREI	GN PAT	ENT DO	cu	MENTS							_
		-	•	DO	CUN	MENT	NUN	4BER	•	DATE		COUNTRY	CLAS	s	SI	JB ASS	YE	anslation	_
																_			Ź
		OT	IER	DO	CUA	IEN'	TS (inclu	ding Au	thor. T	itle	, Date, Pertir	nent P	3088	. Etc	:.)			
	3.	\top		Bi	rnst	iel.	Max	L. e	t al Da	naerou	s L	iaisons: Spe 1-702, (198	rmato.				l Ve	tors fo	

DATE CONSIDERED **EXAMINER**

SPE	7C0	1/2
MAY 2 1		44 ×
FORM PT	O-14	9 (

Modified)

List of Patents and Publications for Applicants Information Disclosure Statement

	•	Page 3 of 12
ATTY DOCKET NO.	SERIAL NO.	
18810-81609	10/054,143	
APPLICANT: Readhead et al.		
FILING DATE:	GROUP ART UNIT	
November 12, 2001	1632	

U.S. PATENT DOCUMENTS **FILING EXAMINER** INITIAL **DOCUMENT NUMBER** DATE NAME CLASS DATE CLASS FOREIGN PATENT DOCUMENTS Translatio SUB CLASS DOCUMENT NUMBER DATE COUNTRY CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Blanchard, K., T. et al., Adenovirus-mediated gene transfer to 4. rat testis in vivio, Biol Reprod (1997 Feb); 56(2):495-500 Brinster, Ralph L., et al., No Simple Solution for Making Transgenic Mice, Cell, 5. Vol. 59, pp. 239-241, Oct 20, 1989 Brinster, Ralph L. et al., Avarbock, Germline transmission of donor haplotype following spermatogonial 6. transplantation. Proc. Natl. Acad. Sci. USA, Vol. 91 pp. 22303-22307. (Nov. 1994) Developmental Biology. Brinster, Ralph L. et al., Spermatogenesis following male germ-cell transplantation, Proc. Natl. Acad. Sci USA. 7. pp. 11298-11302, (Nov. 1994), Developmental Biology. Chen, Shu-Hsia et al., Gene therapy for brain tumors: Regression of experimental gliomas by 8. adenovirus-mediated gene transfer in vivo. Proc. Nati. Acad, Sci, USA, Vol. 91, pp. 3054-3057, April 1994 Chung, J. H. et al., A 5' element of the chicken beta-globin domain serves as an insulator in human 9. erythroid cells and protects against position effect in Drosophila, Cell. 74(3):505-14, Aug 13, 1993, ABSTRACT ONLY Chung, J. H. et al., Characterization of the chicken beta-globin insulator, Proc. 10. Natl. Acad. Sci. USA. 94(2):575-80, January 21, 1997, ABSTRACT ONLY Clouthier, D. E. et al., Rat spermatogenesis in mouse testis, Nature, 381 11. (6581): 418-421 (May 30, 1996). Curiet D. T., et al. Adenovirus enhancement of transferrin-polylysine-12. mediated gene delivery. Proc. Natl. Acad. Sci-USA, 88:8850-54(Oct. 1991). DATE CONSIDERED

EXAMINER

N

MAY 2 1 2004

FORM PTQ-1449 (Modified

List of Patents and Publications for Applicants Information Disclosure Statement

A TOTAL DO COLUMN	Page 4 of 1
ATTY DOCKET NO.	SERIAL NO.
18810-81609	10/054,143
APPLICANT: Readhead et al.	
FILING DATE:	GROUP ART UNIT
November 12, 2001	1632

U.S. PATENT DOCUMENTS **EXAMINER** SUB **FILING** INITIAL **OOCUMENT NUMBER** DATE NAME CLASS CLĀŠS DATE FOREIGN PATENT DOCUMENTS SUB Translatio DOCUMENT NUMBER DATE COUNTRY CLASS CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) 13. Desdouets, C. et al, Cyclin A: function and expression during cell proliferation. (I Proq Cell Cycle Res, 1:115-23, 1995, ABSTRACT ONLY 14. Graberek & Gergely, Zero-length cross-linking procedure with the use of active esters, Analyt. Biochem 185: 131-135 (1990). Hagstrom, K., et al., Fab-7 functions as a chromatin domain boundary to ensure 15. proper segment specification by the Drosophila bithorax complex, Genes Dev, 10(24):3202-15, Dec 15, 1996, ABSTRACT ONLY 16. Horiguchi-Yamada, J., et al., Changes of G1 cyclins, edk2, and cyclin A during the differentiation of HL60 cells induced by TPA, Mol Cell Biochem, 132(1):31-7, Mar 16, 1994, ABSTRACT ONLY 17. Hovatta, Outi, et al., Cryopreservation of human ovarian tissue using dimethysulphoxide and propanedial-sucrose as cryoprotectants. Human Reproduction, Vol. 11, No. 6, pp. 1268-1272, (1996). 18. Hovatta, Outi, et al., Pregnancy resulting from intracytoplasmic injection of spermatozoa from a frozen-thawed testicular biopsy specimen, Human Reproduction, Vol. 11, No. 11, pp. 2472-2473, (1996). 19. Jiang, F-X et al., Male germ cell transplantation in rats: apparent syunchronization of spermatogenesis between host and donor seminiferous. epithelia, International Journal of Andrology, vol. 18, pp. 326-330 (1995). EXAMINER. DATE CONSIDERED 02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

N

MAY 2 1 2004 E

FORM PTO 1449 (Modified)

List of Patents and Publications for Applicants Information Disclosure Statement

T		Page 5 of 12
ATTY DOCKET NO.	SERIAL NO.	
18810-81609	10/054,143	
APPLICANT: Readhead et al.		
FILING DATE:	GROUP ART UNIT	
November 12, 2001	1632	

U.S. PATENT DOCUMENTS EXAMINER INITIAL SUB FILING DOCUMENT NUMBER DATE NAME CLASS CLASS DATE FOREIGN PATENT DOCUMENTS SUB Translatio DOCUMENT NUMBER DATE COUNTRY CLASS CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) 20. Jiang, Fang-Xu et al., Different fate of primordial germ cells and gonocytes 100 following transplantation, APMIS, Vol. 106, p. 58-63, (1998). Johnson L, et al., Heterotoic transplantation as a model to study the regulation of spermatogenesis; some 21. histomorphological considerations about sperm decline in man; Contracept Fertil Sex 1997 Vol. 25(7-8), pp. 549-555. (1997) Jones and Shenk, An adenovirus type 5 early gene function regulates expression of other early viral genes. Proc. Natl. Acad. Sci. USA, 22. 76:(8)3665-3669 (1979) Kang, M. J. et al., Cyclins and cyclin dependent kinasas during cardiac 23. development, Mol Cells, 7(3):360-6, (June 30, 1997) ABSTRACT ONLY 24. Kim, Jin-Hoi et al., Development of a Positive method for Male stern Cell-Mediated Gene Transfer in Mouse and Pig. Molecular Reporduction and Development, Vol. 46, No. 4, pp. 515-526, (1997) Kim, V. Narry et al., Minimal requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1, Journal of Virology, pp. 811-816. 25. (Jan. 1998) Langer, Robert S. et al., Tissue Engineering: The obstacles to building new organs from cells and 26. synthetic polymers are daunting but surmountable The Challenges Ahead, Scientific American, pp. 88-89, April 1999 DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if/citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if

not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO

1449 (Modified)

List of Patents and Publications for Applicants Information Disclosure Statement

_			Page 6 of 17
	ATTY DOCKET NO.	SERIAL NO.	
	18810-81609	10/054,143	
	APPLICANT: Readhead et al.		
	FILING DATE:	GROUP ART UNIT	
	November 12, 2001	1632	

U.S. PATENT DOCUMENTS **EXAMINER FILING** SUB INITIAL DOCUMENT NUMBER DATE NAME **CLASS** CLASS DATE FOREIGN PATENT DOCUMENTS SUB Translauc DATE DOCUMENT NUMBER COUNTRY CLASS CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) 27. Lavitrano, Mariauisa et al., Sperm Cells as Vectors for Introducing foreign DNA Into Eggs: Genetic Transformation of Mice. Cell, Vol. 57, pp. 717-723, (6/2/89) 28. Mittereder et al., Evaluation of the concentration and bioactivity of adenovirus vectors for gene therapy, J. Virology, 70: 7498-7509 (1996) 29. Müller, C. et al., Cell cycle regulated transcription of the promoter of the human cyclin A1 gene. Blood, Journal of the American Society of Hematology, Vol. 90, No. 10, Suppl 1 (Part 1 of 2) Nov 15, 1997 ABSTRACT 1404 30. Müller, C. et al., Cyclin A1 promoter is trans-activated by the c-myb proto-onco gene, Proc. of the Amer. Assoc. for Cancer Res, Vol. 39, Mar/Apr 1998 ABSTRACT 1742 31. Müller, C.at al., SP1 Family Members Regulate Expression of the Tissue Specific Human Cyclin A1 Gene, Blood Journal of the American society of Hematology, Americ. Soc. Of Hemat.40th Annual Meeting, Dec 4-8, 1998 ABSTRACT 1534 32. Müller, Carsten et al., Cloning of the cylin A1 Genomic Structure and Characterization of the Promoter Region, The Journal of Biological Chemistry Vol. 276, No. 16, pp. 11220-11228, Apr 16, 1998 33. Muramatau T. et al.., Foreign gene expression in the mouse testis by localized in vivo gene transfer, Biochem Biophys Res commun, 7;233(1):45-49 (Apr 1997) Nagano, M, et al., Spermatogonial transplantation and reconstitution of donor 34. cell spermatogenesis in recipient mice, APMIS, 106, PP. 47-55, (1998) DATE CONSIDERED -**EXAMINER**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

26139.1

Page 7 of 12

FORM PTO-1449 (Modified)

List of Patents and Publications for Applicants Information Disclosure Statement

Applicants Information Disclosure Statement

Page 7 of 12

ATTY DOCKET NO.

18810-81609

APPLICANT: Readhead et al.

FILING DATE:
November 12, 2001

Page 7 of 12

GROUP ART UNIT

1632

U.S. PATENT DOCUMENTS **EXAMINER** SUB **FILING** INITIAL DOCUMENT NUMBER DATE NAME **CLASS** CLASS DATE FOREIGN PATENT DOCUMENTS SUB Translatio DOCUMENT NUMBER DATE COUNTRY CLASS CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Naito M, et al., Production of germline chimeric chickens, with high transmission rate of donor-derivied gametes, produced by transfer of primordial germ cells, Molecular Reprod Dev., 39(2):153-161(Oct. 1994). 36. Naito M, et al., Donor primordial germ cell-derived offspring from recipient germline chimaeric chickens: absence of long-term immune rejection and effects on sex ratios. Br Poult Sci. 39(1):20-23 (Mar. 1998). 37. Naldini, Luigi et al., In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector, Science, Vol. 272, pp. 263-69 April 12, 1996 38. Ogawa, Takehiko et al., Transplantation of testis germinal cells into mouse seminiferous tubules, Int. J. Dev. Biol., 41:222-122 (1997). 39. Ono T. et al., Transfer of male or female primordial germ cells of quail into chick embryonic gonads, Exp Anim. 45(4):347-352 (Oct. 1996). 40. Paterlini, P. et al., Cylin A expression in human hematological malignancies: a new marker of cell proliferation. Cancer Res. 53(2):235-8, (Jan 15, 1993) ABSTRACT ONLY Pedersen, Roger A., Cells for Medicine, Embryonic Stem Cells for Medicine, 41. Scientific American, pp. 68-73 (April 1999). Perez-Cruet, M. J., et al., Adenovirus-Mediated Gene Therapy of Experimental 42. gliomas, Journal of Neuroscience Research, Vol. 39, pp 506-511(1994). meiotic cell cylces, Dev. Biol., 10:173(1):69-78, (Jan 10, 1998). EXAMINER DATE CONSIDERED

FORM PTO-1449 (Modified)

List of Patents and Publications for Applicants Information Disclosure

ATTY DOCKET NO.

18810-81609

APPLICANT: Readhead et al.

FILING DATE:

GROUP ART UNIT

November 12, 2001

Statement

U.S. PATENT DOCUMENTS EXAMINER FILING DATE SUB DOCUMENT NUMBER INITIAL DATE NAME CLASS CLASS FOREIGN PATENT DOCUMENTS SUB Translatic DOCUMENT NUMBER DATE COUNTRY CLASS CLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Pikaart, Michael J., Loss of transcriptional activity of a transgene is accompanied by DNA methylation and histone deacetylation and is prevented 12 by insulators, Genes & Development, 12:2852-2862, (1998). Ravnik, S. E. et al., The developmentally restricted pattern of expression in the male germ line of a murine cylin A. cyclin A2, suggests roles in both mitotic and 44. meiotic cell cylces, Dev. Biol., 10:173(1):69-78, (Jan 10, 1996). ABSTRACT ONLY Ravnik, S. E. et al., Regulation of meiosis during mammalian spermatogenesis: the A-type cyclins and their associated cyclin-dependent kinases are 45. differentially expressed in the germ-cell lineage. Dev Bio, 207(2):408-18 (Mar 15, 1999). ABSTRACT ONLY 46. Russell, L.D. et al., Ultrastructural observations of spermatogenesis in mice resulting from transplantatin of mouse spermatogonia, J. Androl., 17(6):603-614 (Nov. 1996). Schmidt, Jerzy A. et al., Control of Erythroid differentiation. Possible Role 47. of the Trensferrin cycle, Cell, Vol. 48, 41-51 (Jul 4, 1986). Schiedner, Gudrun, Genomic DNA transfer with a high-capacity adenovirus vector results in 48. improved in vivo gene expression and decreased toxicity, Nature Genetics, Vol. 18, pp. 180-183 (Feb 1998). Sweeney, Claire et al., A distinct cylin A is expressed in germ cells in the 49. mouse, Development, Vol. 122, pp. 53-64 (1996). Wagner, Ernst, Transferrin-polycation conjugates as carriers for DNA uptake 50. into cells, Proc. Natl. Acad. Sci. USA, Vol 87, pp. 3430-3414 (May 1990). DATE CONSIDERED **EXAMINER** 04

1632

Page 8 . of 12

49 (Modified)

ist of Patents and Publications for Applicants Information Disclosure Statement

		Page 9 : of 12
ATTY DOCKET NO.	SERIAL NO.	
18810-81609	10/054.143	
APPLICANT: Readhead et al.		
FILING DATE:	GROUP ART UNIT	
November 12, 2001	1632	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL			DOCUMENT	NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING		
										1		
				FOREIC	N PATENT DOC	JMENTS		<u> </u>				
			DOCUM	ENT NUMBER	DATE	COUNTRY	С	LASS	SUB CLASS	Transia		
0	THER	DOC	UMENTS	(Including A	Author, Title	, Date, Pertin	ent Pa	PADE	Ftc)			
\bigcirc 10	51.		Wolffe, A.	P., Packagin	g principle: ho	w DNA methyla activity of chro	tion an	d histo	пе			
4)6			282(1-2):	239-44 (Sep-C	Oct 1998). AE	STRACT ONLY						
	52.		Yang, Ron Expressed	ig et al., Char in Testis and	acterization o in Several Le	f a Second Huma ukemic Cell Line	n Cyc s, Can	lin A 7 cer Res	hat is Hig search,	hly		
57, pp. 913-920 (March 1, 1				h 1, 1997).	I, 1997).							
	53.	PCT International Search Report re PCT/US98/24238, International 13/11/1998, Priority Date: 14/11/1997.					ationa	l Filing Da	ite:			
	54.		Produce T	ransgenic Ani Through Testic	mal Comprise	ucing Extraneous Introducing Ext rtery Sperm Test	aneou	s Gene	Liposom	e		
55. Bucci, L. R. et al., Effects of busulfan on murine spermatogenesis: sterility, sperm abnormalities, and dominant lethal mutations, Vol. 176, pp. 259-268, (1987).						cytotoxi Resear						
·	56.		Kormano, 400 R wh (1972).	M. et al., In v	vitro contracti radiation, Stra	<i>lity of rat semini</i> hlentherapie Vol	ferous 144,	<i>tubule</i> No. 6,	s followir pp. 713-	<i>g</i> 718		
57. Oakberg, E. F., Effects of radiation on the testis, Handbook of Physiology, Endocrinology V, pp. 233-243 (date unknown) 58. Pont, Jorg et al., Fertility after chemotherapy for testicular germ cell cance Fertility and Sterility, Vol. 68, No. 1, pp. 1-5, (July 1997).							rsiology,					
							ell cancel	·.				
	59.		treatment	in utero or ne	ution of soma eonatal crypto STRACT ONL)	tic and germ cell rchidism in the r	<i>populi</i> at, An	<i>tions d</i> drologi	after busu a, 27(4):	ilfan 223-		
EXAMINER		P.	200	-(-)			8/04					

FORM PTO 1449 (Modified)

List of Patents and Publications for Applicants Information Disclosure

ATTY DOCKET NO.

18810-81609

ATTY DOCKET NO.

18810-81609

10/054,143

APPLICANT: Readhead et al.

FILING DATE:

GROUP ART UNIT

1632

November 12, 2001

Statement

EXAMINER

5)4	60.	Hasegawa, M., Resistance of differentiating spermatogonia to radiation-induced apoptosis and loss in p53-deficient mice, Radiat Res, 149(3):263:70, (Mar 1998). ABSTRACT ONLY
	61.	Hopkinson, C. R., The effect of local testicular irradiation on testicular histology and plasma hormone levels in the male rat, Acta Endocrinol (Copenh), 87(2):413-23 (Feb 1998). ABSTRACT ONLY.
-	62.	Jiang, F. X., Anat Embryol, Behaviour of spermatogonia following recovery from busulfan treatment in the rat, 198(1):53-61 (Jul 1998). ABSTRACT ONLY.
	63.	Kamtchouing, P., Effect of continuous low-dose gamma-irradiation on rat Sertoli cell function, Reprod Nutr Dev, 28(48):1009-17 (1988). ABSTRACT ONLY.
	64.	Kamtchouing, P., Changes in androgen binding protein (ABP) production following continuous low dose gamma irradiation (IR) of adult rat, Steroids, 52((4):349-50, (Oct 1988). ABSTRACT ONLY.
	65.	Kangasniemi, M., Cellular regulation of basal and FSH-stimulated cyclic AMP production in irradiated rat testes, 227(1):32-6 (May 1990). ABSTRACT ONLY.
	66.	Kasuga, F., The endocrine function of rat gonads with reduced number of germ cells following busulphan treatment, Endocrinol Jpn, 33(1):105-15 (Feb 1986). ABSTRACT ONLY.
-	67.	Linder, R. E., Endpoints of spermatotoxicity in the rat after short duration exposures to fourteen reproductive toxicants, Reprod Toxicol, 6(6):491-505 (1992). ABSTRACT ONLY.
	68.	Pineau, C., Assessment of testicular function after acute and chronic irradiation: further evidence for an influence of late spermatids on Sertoli cell function in the adultrat, Endocrinology, 124(6):2720-8 (Jun 1989). ABSTRACT ONLY.
	69.	Pinon-Lataillade, G. et al., Continuous gamma-irradiation of rates: dose-rate effect on loss and recovery of spermatogenesis, Strahlentherapie, 161(7):421-6, (Jul 1985). ABSTRACT ONLY.
	T	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 26139.1

DATE CONSIDERED

PE CON PTO-144

FORM PTO-1449 (Modified)

EXAMINER

List of Patents and Publications for Applicants Information Disclosure Statement

		Page // of 12
ATTY DOCKET NO.	SERIAL NO.	
18810-81609	10/054,143	
APPLICANT: Readhead et al.		
FILING DATE:	GROUP ART UNIT	
November 12, 2001	1632	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) 70. Pinon-Lataillade, G. et al., Endocrinological and histological changes induced by continuous low dose gamma-irradiation of the rat testis, Acta Endocrinol (Copenh), -)100 109(4):558-62 (Aug 1985). ABSTRACT ONLY. Pinon-Lataillade, G. et al., Influence of germ cells upon Sertoli cells during continuous 71. low-dose rate gamma-irradiation of adult rats, Mol Cell Endocrinol, 58(1):51-63, (Jul 1988). ABSTRACT ONLY. Pinon-Lataillade, G., Effect of an acute exposure of rat testes to gamma rays on germ 72. cells and on Sertoli and Leydig cell functions, Reprod Nutr Dev 31(6):617-29. (1991) ABSTRACT ONLY. Russell, L. D. et al., Ultrastructural observations of spermatogenesis following 73. transplantation of rat testis cells into mouse seminiferous tubules, J. Androl 17(6):615-27. (Nov-Dec 1996). ABSTRACT ONLY. Announcement re Bulsulfan (Myleran) Facts and Comparisons, pp. 1-5 (Aug 1997). 74. PCT International Search Report re PCT/US99/10573, International filing Date 75. 13/05/1999, Priority Date: 13/11/1998. 76. XP-002117132 PCT, International Search Report re PCT/US99/08277, International Filing date 77. 04/15/99; Priority Date 11/13/98 Derwent, XP-002115938 78. Ikawa, Masahito et al., Green fluorescent protein as a marker in transgenic mice, 79. Develop. Growth Differ., 37, 455-459 (1995), XP-002086829.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

Page 12 of 12 ATTY DOCKET NO. SERIAL NO. 449 (Modified) 18810-81609 10/054,143 List of Patents and Publications for APPLICANT: Readhead et al. **Applicants Information Disclosure** FILING DATE: **GROUP ART UNIT** Statement November 12, 2001 1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
3120	6,215,039 B1	04/10/2001	Brinster, Ralph L.			
, , <u>, , , , , , , , , , , , , , , , , </u>	5,858,354	01/12/1999	Brinster		-	
	4,736,866	04//12/1988	Lederer .			
	5,741,957	4/21/1998	Deboer et al.			-
	5,162,215	11/10/1992	Bosselman et al.			
	5,686,279	11/11/1997	Finer et al.			
	6,271,436 B1	08/07,2001	Piedrahita et al.			
	6,426,042 B1	07/30/2002	Asada et al.			

FOREIGN PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	Translation No
Γ	000	WO 99/25863 A1	05/27/99	PCT				
Γ	1	WO 99/40213 A1	08/12/99	PCT				
Г	7	WO 00/29601 A1	05/25/00	PCT				
·୮		WO 00/29602 A1	05/25/00	PCT ·				

OTHER ART (Including Author, title, Date, Pertinent Pages, Etc.)

	nd Mice by the Testis-Mediated Gene
Transfer, Journal of Repordocution and Development, Vol. 45, No. 1, pp.	. 29-36 (1999).
81. Sato, M. et al., Direct Injection of Foreign DNA into Mouse Testis As A F	Possible Alternative of sperm-Mediated
Gene Transfer, Animal Biotechnology, Vol. 5, No. 1, pp. 19-31 (1994).	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pharmacological Basis of Therapeutics,
Ninth Edition, Chapt 5, pp. 77-101 (1996).	
83. Verma, Inder M. et al., Gene therapy—promises, problems and prospects	s, Nature, vo. 389, (18 September 1997).
84. Wall, R. J., Transgenic Livestock: Progress and Prospects For The Futu	re, Theriogenology, Vol. 45, pp. 57-68
(1996).	
85. Culver, Gene Therapy, "Ethical and regulatory considerations in human	gene therapy, "Handbook for
Physicians, Vol. 7, pp. 79-80	
86. Maione, Barbara et al., Sperm-Mediated Gene Transfer in Mice, Molecular	ar Reporduction and Development,
Vol. 50, pp406-409 (1998).	
87. Sato, Masahiro et al., Testis-Mediated Gene Transfer (TMGT) in Mice: S	Successful Transmission of Introduced
DNA from FO to F2 Generations, Transgenics, Vol. 3, pp. 11-22 (1999)	•
88. Lavitrano, M. Forni et al., Sperm-Mediated Gene Transfer: Production of	of Pigs Transgenic for a Human Regular
of Complement Activation, Transplantation Proceedings, Vol. 29, pp. 350	
89. Bachiller, Daniel et al., Liposome-Mediated DNA Uptake by Sperm Cells,	, Molecular Reproduction and
Development, 30:194-200 (1991).	

			1 2			
EXAMINER		\	CAX 1	DATE CON	CIDEDED:	<i>l'</i>
CVWMINCK		, , ,	' >₹Y\ 1	DATECON	SIDERED, /	1.M/
		/ // /.	1.701		11/65/	OLI .
		(20 1/1 //	ellac!		"/0/	''
EVANIED.	Initial if airati	on considered	whather or not citati	on ic in conforme	was with MDED 600	. Draw line through citation if
EXAMINER.	ınınaı n Çıtau	ion considered,	whether of not char	on is in comornia	HICE WILL IVIEEE 003	. Diaw inic unough chanon n
	/ /			• . •		
not in conformance and not considered. Include copy of this form with next communication to applicant.						
POLICE	wild live		vop, or unb to		to appire	PR